



Remote Start Kit For GM Trucks/SUVs- Installation Quick-Reference

Thank you for purchasing your remote start from MyPushcart.com - an industry leader in providing remote starts to do-it-yourself installers since 1999. We've put this tip sheet together to help you with your installation. The purpose of this sheet is to help you organize your installation - not to replace your installation manuals. You will still need to refer to those.

Two very important things before you get started:

- Read the entire installation manual. There are several safety tips in there that you need to know before you start
- Avoid using a test light to probe wires. Test lights can set off air bags and damage ECU's if you probe the wrong wire. Your vehicle wiring chart will identify the correct wires that you'll be tapping on to in your car. If you must probe, use a digital multi-meter. They're inexpensive and won't set off air bags or burn circuit boards.
- Test, and re-test all the wires you are connecting to in your vehicle before you connect them. Sometimes wire color may change or be slightly different than what is shown on the chart. Don't assume the chart is correct.

Your Kit Includes

1. Crimestopper RS7 remote car starter
2. idatalink ADS-DL bypass/interface module. The module has been pre-loaded with the correct software for your vehicle
3. idatalink ADS-RNG-3 transponder ring

Overview

There are 5 basic steps to this remote start installation. We're going to address each of these:

1. Install your accessories
2. Make your wiring connections for the remote start
3. Program the remote start and bypass
4. Test the system
5. Button it up!

When you open your package, you will see lots of wires. Don't panic – you will not be using most of them. Basic installation of this kit usually requires only 5 wiring connections in to the vehicle. We will detail those for you later.

If you provided us with your vehicle model/year information, your package will also include a wiring chart for your vehicle. This chart identifies the color and location of various wires that are normally used for remote start installation. **THE ONLY INFORMATION YOU WILL NEED FROM THIS CHART IS THE COLOR/LOCATION OF YOUR 12-VOLT POWER SOURCE AND THE COLOR/LOCATION OF THE BRAKE SWITCH WIRE.** All the other connections are either not needed or will be detailed later in a more clear and easy to understand manner.

If you did not provide us with your vehicle information and need the wiring chart, email us at sales@mypushcart.com. Be sure to include the model/year of your vehicle, your name and your sales order number.

Step 1: Install Your Accessories

Your kit includes an antenna, a programming switch, a hood pin and a status LED.

- Programming Switch – required and must be installed
- Antenna – required and must be installed
- Hood Pin - An important safety component! This is what prevents the car from starting when the hood is open. If your vehicle is equipped with a factory hood pin, the OFA module included with your kit will read it, so installation of the aftermarket hood pin is not required. If your vehicle does not have a factory hood pin, we strongly recommend you install the one included with the kit.
- Status LED - Not required for normal operation but can be helpful for troubleshooting.

❓ Need to know where all the components go? See Installer's Tip #1 on page 6.

Step 2 – Wiring

Below is a detailed list of all the wiring connections you'll need to make. Note that some connections are made in to the vehicle and others are made between the bypass module and the remote start module.

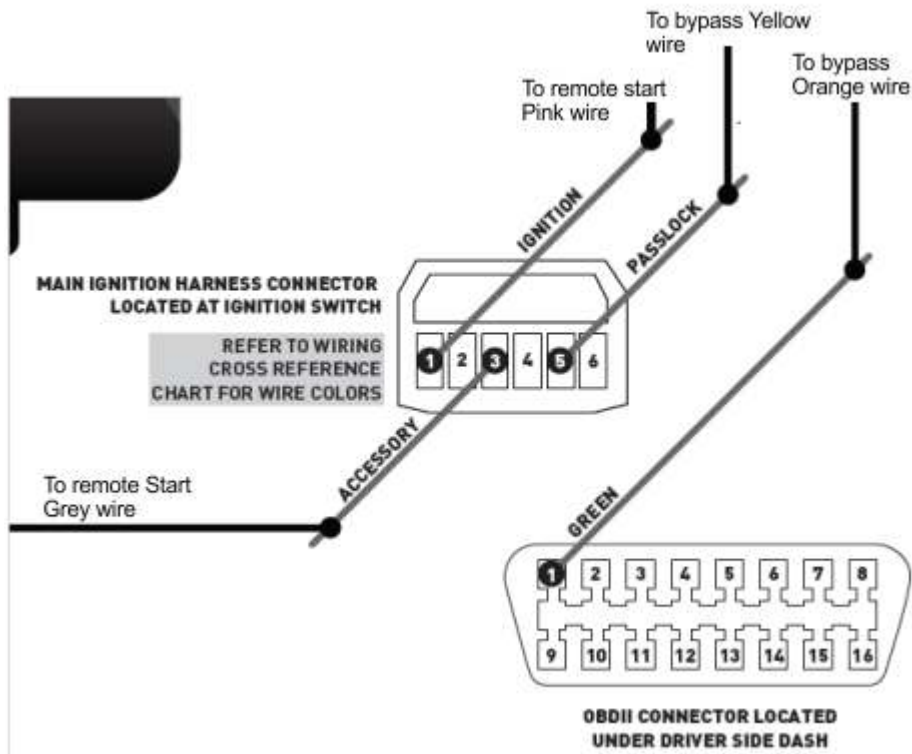
When you're done, you will have lots of unused wires. You can tie them up and secure them, or you can cut them short. On the bypass module, you can pop the unused wires out of the plugs altogether by pushing down on the metal contacts on the plug with a pointy tool (a paper clip actually works well) and pulling on the wire. Whatever you choose, wait until your installation is completed, programmed and tested before you tie up, cut or remove any wires!

Where to find the wires in the vehicle

Find your vehicle on the Wire Cross Reference Chart that begins on Page 5 of the ADS-DL bypass installation manual (at the end of this document). The chart will show you the color and location of the vehicle wires you'll need to use. We'll be using the "Type 2" installation.

Below is a sample of a typical vehicle and a diagram that shows where the connections are made.

TYPE 2 - WIRE CROSS REFERENCE CHART - 2 OF 3											
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR			POSITION	WIRE COLOR	POLARITY	LOCATION	COMPONENT LOCATOR
				NAME	COLOR	TYPE					
Silverado	07-11	SWC	-	-	16 pin	1	Green	(DATA)	OBDII	-	
		Passlock	-	-	6 pin	5	Pink/Black	(+)	Ignition connector	-	
		Accessory (PK3+)*	-	-	6 pin	3	Yellow or Brown	(+)	Ignition connector	-	
		Ignition	-	-	6 pin	1	Pink	(+)	Ignition connector	-	



Remote Start 6-Pin Harness:

- Red (2) - connect to Constant +12v The wire color and location information is on your vehicle wiring chart – NOT in the ADS-DL manual. When tested, this wire will show +12 volts whether the vehicle's ignition is on or off.
- Pink – connect to Pin 1 at the vehicle's Main Ignition Harness Connector. When tested, this wire will show +12 volts only with the key in the ON position
- Grey – connect to Pin 3 at the vehicle's Main Ignition Harness Connector. When tested, this wire will show +12 volts only with the key in the ON position

Remote Start 12-Pin Harness

- Black to Ground
- Purple – connect to vehicle Brake Switch wire. When tested, this wire will show +12 volts only when the brake pedal is being pressed. Wire color and location information is on your vehicle wiring chart.

Bypass 3-Pin Connector w/Yellow wires

- Yellow wire - connect to Pin 5 at the Main Ignition Harness Connector. There is no test for this wire.

Bypass 7-Pin Connector (white plug)

- Orange – connect to Pin #1 on ODB2 Connector (under driver's dash). There is no test for this wire.
- Pink – connect to remote start's pink wire in 6-pin connector
- Orange/Black to ground

Bypass 9-Pin Connector (black plug)

- Black/white - connect to remote start's grey wire in 6-pin connector

❓ Need tips on how to make the wiring connections? See Installer's Tip #2 on page 6

Step 3 – Finishing the Bypass Installation and Programming

1. Prior to plugging in the bypass, change the remote start's programming option #5 to "ADS- idatalink OFA Series" (instructions for Options Programming are on page 15 of remote start manual)
2. Change the remote start's programming option #1 to "tach"
3. Install the transponder ring around the ignition switch. Wrap the loop around the ignition switch 6 times.
4. Connect the bypass to the remote start using the black 4-pin data cable. Be sure to use the "OFA" data port on the remote start.
5. When all the wiring is completed, the bypass and the transponder need to be programmed. See pages 14 & 15 in the GM3 Install Guide.

Step 4 – Test the System

Once your bypass and transponder programming has been completed, the system should be fully operational. Here are the tests you should perform prior to closing up the installation:

Test the 'lock' and 'unlock' functions on the remote controls

Remote start the vehicle by holding the 'start' button for 2 seconds

While the vehicle is running on the remote start, press the brake pedal – this should shut the engine down.

Open your hood and try to remote start the vehicle. If you have a factory hood pin or if you have installed the aftermarket hood pin, the remote start should NOT work.

Close the hood and remote start the vehicle again. With the vehicle running, press the 'start' button on the remote again. The engine should shut down.

Remote start the vehicle one more time. With the engine running, unlock your doors, get in, put the key in the ignition and turn it to the 'on' position. At this point the vehicle should be able to be driven and operate normally.

Step 4 – Close it up!

Gather up all your wiring and neatly bundle it together using zip ties or electrical tape. Find a secure place to put the remote start module and use zip ties to secure it. If you're going to trim or remove any unused wires, now is the time. **Make sure that the remote start wires are not near any moving parts on the steering wheel, pedals or emergency brake!**

Installer's Tips

Tip #1 – Where Everything Goes

1. *Remote start module* – the wiring for the module is done under the dash on the driver's side, so you'll want to install the module in that general area. Before you start wiring, look for a location where there's some open space that will fit the module. Pay attention to moving parts like the pedals, e-brake and steering column. Be sure to route your wiring away from those areas.
2. *OFA Bypass module* – can be stowed along with the remote start.
3. *Programming button* – Requires a ¼" hole. Usually put in the driver's kick panel (that's the area forward of the door), the driver's side of the center console, or the underside of the dash.
4. *Hood Pin Switch* – An important safety component! Requires a 3/8" hole. Find a location in the engine compartment to mount the switch where the closed hood will keep the plunger in the switch depressed. This is what prevents the car from starting when the hood is open. If your vehicle is equipped with a factory hood pin, the OFA module will read it, so installation of the aftermarket hood pin is not required.
5. *Status LED* – Not required for normal operation but can be helpful for troubleshooting. Can be mounted anywhere you like – or unplugged and not used once the installation is completed.
6. *Antenna* – Mount to the inside of the windshield near the top or near the pillar. The higher it is mounted, the better the operating range of your system. To further improve performance, mount the antenna at least 1" away from metal. Route the cable under the headliner, under the interior trim on the windshield pillar and behind the trim at the end of the dash.

Tip #2 – How to make your wiring connections

It's very important that all your wiring connections be solid and secure. All remote start connections are "tap on" connections. This means that you do not need to cut the wires in the car. You simply need to "tap on" to the wires in the car to make your connections. Here are three different ways to do this:

Method 1 – Solder and tape

This is the method preferred by the best professional installers. It makes for the most reliable connections, but it is also the most difficult to do. Sometimes there isn't enough room in the wiring harness to safely solder a wire without damaging adjacent wires, but if you have the soldering skills, go for it. To make a connection, strip back a section of the insulation on the wire in the car. On heavy gauge wires, 1" is about the right amount. On lighter gauge wires, ½" is fine. Strip 1" of insulation off

the end of the remote start wire. Tin the bare section of wire in the car. Wrap the remote start wire around the tinned section and then carefully solder it in place. Wrap the splice tightly with electrical tape.

Method 2 – Wrap and tape

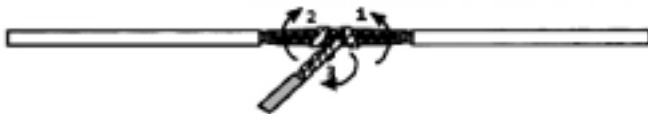
This is the most popular method and is also very reliable. Strip back a section of the insulation on the wire in the car. On heavy gauge wires, 1" is about the right amount. On lighter gauge wires, ½" is fine. Strip 1" of insulation off the end of the remote start wire. Separate the strands of the wire like this:



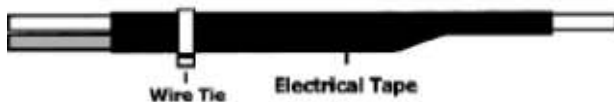
Pass the wire from the remote through the opening as shown below



Wrap the remote start wire around both sides of the car wire, then back around itself as shown below



Use electrical tape to wrap the connection and secure the wires together. A wire tie will help prevent the tape from unraveling in the future.



Method #3 – “T-Taps”

T-taps are plastic clips that are squeezed onto the wires in the car. The wire from the remote start goes into the tap and the whole thing is crimped together. T-taps come in different sizes for different size wires. Use yellow t-taps for the larger wires in your main power harness. Red t-taps are good for the smaller wires. Tape and wire tie the connections as shown in the “wrap and tape” section above – that will prevent the t-taps from ever opening up.

We now have a “tap kit” available for purchase for those who prefer to use this method. The kit consists of two types of connectors - The taps and insulated male spade connectors that plug into them. The taps attach to the wires in the car and the spade connectors attach to the wires on the remote start. The spades then plug in to the taps. A crimping tool is required.

Did you find this document helpful? Please let us know so we can continue to improve our service to you. Suggestions are welcomed and encouraged!

Please email to sales@mypushcart.com